



EXTENDED DRILLING PROGRAM COMPLETED AT HALLECK CREEK

American Rare Earths Limited (ASX: ARR | OTCQX: ARRNF | ADR: AMRRY) ("ARR" or "the Company") is pleased to announce the successful completion of the extended 2024 drilling program at its Halleck Creek Rare Earths Project in Albany County, Wyoming. As part of the program extension, five additional reverse circulation (RC) drill holes were completed, totalling 837 metres (2,746 feet), focused on the western section of the Cowboy State Mine (CSM) deposit. This area was previously identified as having higher-grade rare earth mineralisation.

Key Highlights:

- Five additional RC drill holes were successfully completed in the western area of the CSM deposit, known for higher-grade mineralisation.
- Geophysical logging and detailed geological analysis of the drill cuttings are underway.
- Samples have been dispatched to ALS Global for formal assay, with results anticipated in the near future.

The extension to the 2024 drilling program, as announced earlier, targeted high-potential zones within the western portion of the deposit, particularly near Red Mountain, where higher grades have been confirmed. The completion of these additional holes contributes critical data that will support ongoing resource model updates and the long-term development of the project.

Chief Executive Officer, Chris Gibbs commented:

"The completion of these additional drill holes marks an important step forward in our exploration efforts at Halleck Creek. By targeting the western area of the CSM deposit, we are focused on high-grade zones that can significantly enhance the project's resource potential. We are excited about the next phase of analysis and eagerly await the formal assay results, which will provide valuable data to upgrade our resource models and mine plans. With each stage, we are building a solid foundation for the future of Halleck Creek."

Next Steps

As the geophysical logging and sample analysis progress, ARR's team will incorporate the data into updated geological models. We are looking forward to receiving the assay results, which will play a crucial role in resource estimation and future planning. ARR will continue to keep the market informed as the program advances.

This announcement has been authorised for release by the CEO of American Rare Earths Limited.

Further information

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Competent Persons Statement:

The information in this document is based on company work performed in July and August 2024. This work was reviewed and approved for release by Mr Dwight Kinnes (Society of Mining Engineers #4063295RM) who is employed by American Rare Earths and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 JORC Code. Mr Kinnes consents to the inclusion in the report of the matters based upon the information in the form and context in which it appears.

Previously Released Information:

ARR confirms it is not aware of any new information or data that materially affects the information included in the original market announcements, and, in the case of the JORC Resource, that all material assumptions and technical parameters underpinning the JORC Resource in the relevant market announcements continue to apply and have not materially changed. ARR confirms that the form and context in which the Competent Person's findings presented have not been materially modified from the original market announcements.

American Rare Earths (ASX: ARR | OTCQX: ARRNF | ADR: AMRRY) owns Wyoming Rare (USA) Inc., which is focused on the development of the Halleck Creek Project, WY. It also owns La Paz, AZ rare earth deposit. Both can potentially become the largest and most sustainable rare earth projects in North America. The Company is developing environmentally friendly and cost-effective extraction and processing methods to meet the rapidly increasing demand for resources essential to the clean energy transition and US national security. The Company continues to evaluate other exploration opportunities and is collaborating with US Government-supported R&D to develop efficient processing and separation techniques of (REEs) elements to help ensure a renewable future.

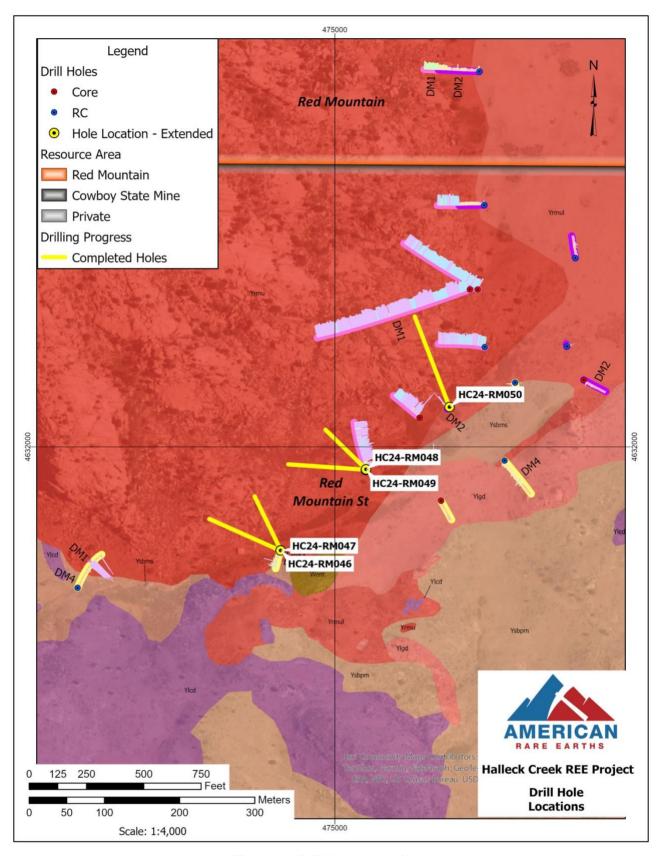


Figure 1 - Drill Hole Locations

APPENDIX A – JORC TABLE 1

Section 1 Sampling Techniques and Data				
(Criteria in this section apply to all succeeding sections.)				
Criteria	JORC Code explanation	Commentary		
	Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.	WRI drilled 23 drill holes in the Cowboy State Mine area. 11 HQ holes completed with a total length of 1,585 meters (5,309 feet). 672 core samples have been collected, logged and shipped to ALS global for splitting and assay. 12 reverse circulation holes completed with a total length of 1,031 meters (3,381 feet). 689 RC samples were collected, logged and shipped to ALS global for assay.		
	Include reference to measures taken to ensure sample represe6ntivity and the appropriate calibration of any measurement tools or systems used.	RC samples were collected every 1.5 meters. Core samples were collected every 3 meters, or at lithological contacts observed in core.		
Sampling techniques	Aspects of the determination of mineralisation that are Material to the Public Report.	The Red Mountain Pluton (RMP) of the Halleck Creek Rare Earths Project is a distinctly layered monzonitic to syenitic body which exhibits significant and widespread REE enrichment. Enrichment is dependent on allanite abundance, a sorosilicate of the epidote group. Allanite occurs in all three units of the RMP, the clinopyroxene quartz monzonite, the biotite-hornblende quartz syenite, and the fayalite monzonite, in variable abundances.		
	In cases where 'industry standard' work has been done, this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge	RC samples were collected using a rotary splitter to prepare three samples across each 1.5 meter interval. Each sample was logged by geologists and given a unique sample ID and prepared for assay		
	for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.	Core samples were logged in detail by geologists for lithology, alteration and geotechnical attributes. Homogenous lithology was broken into 3m samples. Shorter samples were collected at lithologic contacts observed in core.		

Criteria	JORC Code explanation	Commentary		
Drilling techniques	Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or another	WRI drilled 12 reverse circulation drill holes with samples collected using a rotary splitter.		
	type, whether the core is oriented and if so, by what method, etc.).	WRI drilled 11 HQ core holes. Angle holes were oriented		
	Method of recording and assessing core and chip sample recoveries and results assessed.	Core recoveries were calculated by WRI geologists.		
Drill sample recovery	Measures are taken to maximise sample recovery and ensure the representative nature of the samples.	Core recoveries were calculated by WRI geologists.		
recovery	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	There is not a relationship between sample recovery and sample bias. Allanite occurs as phenocrysts in a plutonic body.		
	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	All rock samples were geologically and geotechnically logged WRI geologists familiar with the deposit. Lithology, alteration, geotechnical parameters were recorded for each sample.		
Logging	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	Logging of rock samples are quantitative adhering to methods established by WRI.		
	The total length and percentage of the relevant intersections logged.	Rare earth mineralization occurs across the rocks of the RMP. All lengths of RMP material are relevant.		

Criteria	JORC Code explanation	Commentary	
	If core, whether cut or sawn and whether quarter, half or all core taken.	ALS global is splitting the core into two halves.	
	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	RC samples were collected using a rotary splitter into three samples.	
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	All core samples were dry. Sample preparation: 1kg samples split to 250g for pulverising to -75 microns. Sample analysis: 0.5g charge assayed by ICP-MS technique.	
Sub-sampling techniques and	Quality control procedures adopted for all sub-sampling stages to maximise the representivity of samples.	WRI geologists added blanks, CRM and identified duplicate samples across each drill hole using establish company standards.	
sample preparation	Measures are taken to ensure that the sampling is representative of the in situ material collected, including, for instance, results for field duplicate/second-half sampling.	WRI geologists added blanks, CRM and identified duplicate samples across each drill hole using establish company standards.	
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Allanite is generally well distributed across the core and the sample sizes are representative of the fine grain size of the Allanite.	
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	ALS uses a 5-acid digestion and 32 elements by lithium borate fusion and ICP-MS (ME-MS71h). For quantitative results of all elements, including those encapsulated in resistive minerals. These assays include all rare earth elements.	
	For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument	XRF readings were collected for qualitative indications in the field. XRF was not used for quantitative purposes.	

Criteria	JORC Code explanation	Commentary
	make and model, reading times, calibrations factors applied and their derivation, etc.	
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	WRI geologists added blanks, CRM and identified duplicate samples across each drill hole using establish company standards.
	The verification of significant intersections by either independent or alternative company personnel.	Surface samples have not yet been verified by independent personnel.
	The use of twinned holes.	n/a
Verification of sampling and assaying	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Data entry was performed by ARR personnel and checked by ARR geologists. All field logs were scanned and uploaded to company file servers. All photographs were also uploaded to the file server daily. All scanned documents are cross-referenced and directly available from the database. Assay data from the surface samples was imported into the database directly from electronic spreadsheets sent to ARR from ALS.
	Discuss any adjustment to assay data.	Assay data is stored in the database in elemental form. Reporting of oxide values are calculated in the database using the molar mass of the element and the oxide.
Location of data	Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	Drill hole locations were surveyed by a professional land surveyor.
points	Specification of the grid system used.	The grid system used to compile data was NAD83 Zone 13N.
	Quality and adequacy of topographic control.	Topography control is +/- 10 ft (3 m).

Criteria	JORC Code explanation	Commentary	
	Data spacing for reporting of Exploration Results.	Drill hole locations vary between 100 and 300 meters.	
Data spacing and distribution	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	Geostatistical analysis of previous drilling data indicates that the drill hole spaced defined for the 2024 program is appropriate for minor resource and reserve estimation procedures.	
	Whether sample compositing has been applied.	Composite have not been applied.	
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	Mineralization at Halleck Creek is a function of fractional crystallization of allanite in syenitic rocks of the Red Mountain Pluton. Mineralization is not structurally controlled and exploration drilling to date does not reveal any preferential mineralization related to geologic structures.	
	If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	n/a	
Sample security	The measures are taken to ensure sample security.	All samples were in the direct control of company geologists until dispatched to ALS Global. Transport to ALS is handling using licenced and bonded carriers.	
Audits or reviews The results of any audits or reviews of sampling techniques and data.		No external audits or reviews have been conducted to date. However, sampling techniques are consistent with industry standards.	

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary	
Mineral tenement	Type, reference name/number, location and ownership, including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	ARR controls 365 unpatented federal lode claims and 4 Wyoming State mineral licenses covering 8,124 acres (3,288 ha).	
and land tenure status	The security of the tenure held at the time of reporting and any known impediments to obtaining a licence to operate in the area.	No impediments to holding the claims exist. To maintain the claims an annual holding fee of \$165/claim is payable to the BLM. To maintain the State leases minimum rental payments of \$1/acre for 1-5 years; \$2/acre for 6-10 years; and \$3/acre if held for 10 years or longer.	
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Prior to sampling by WIM on behalf of Blackfire Minerals and Zenith there was no previous sampling by any other groups within the ARR claim and Wyoming State Lease blocks.	
Geology	Deposit type, geological setting and style of mineralisation.	The REE's occur within Allanite which occurs as a variable constituent of the Red Mountain Pluton. The occurrence can be characterised as a disseminated type rare earth deposit.	
	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:	Refer to Appendix B of the ASX announcement of 1 October 2024 which contains the assays received to date from ALS The surveyed locations and orientations of the drill holes are included in the release.	
Drill hole Information	easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole downhole length and interception depth Hole length.		
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the		

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary		
Circeila	understanding of the report, the Competent Person should clearly explain why this is the case.	Commentary		
	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.	No cut-offs have been applied to the data		
Data aggregation methods	Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	Assays are representative of each sample.		
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalents used.		
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is unknown and only the downhole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	Allanite mineralization observed at Halleck Creek occurs uniformly throughout the CQM and BHS rocks of within the Red Mountain Pluton. Therefore, the geometry of mineralisation does not vary with drill hole orientation or angle within homogeneous rock types.		
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to, a plan view of drill hole collar locations and appropriate sectional views.	Location information is presented the text above		
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practised to avoid misleading reporting of Exploration Results.	ALS Global performed analytical analysis of each sample. The tables above show extents of mineralized thickness in each hole received to date.		

Section 2 Re	porting of	Explorati	on Results
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(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Other substantive exploration data		In hand specimen this rock is a red colored, hard and dense granite with areas of localised fracturing. The rock shows significant iron staining and deep weathering.
	Other exploration data, if meaningful and material, should be reported, including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	Microscopic description: In hand specimen the samples represent light colored, fairly coarse-grained granitic rock composed of visible secondary iron oxide, amphibole, opaques, clear quartz and pink to white colored feldspar. All of the specimens show moderate to strong weathering and fracturing. Allanite content is variable from trace to 2%. Rare Earths are found within the Allanite.
		Historical metallurgical testing consisted of concentrating the Allanite by both gravity and magnetic separation. The current program employs sequential high gradient magnetic separation and flotation to produce a concentrate suitable for downstream rare earth elements extraction.
	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).	Further drilling is planned to increase the area of the project, and to increase confidence levels of resources. Geological mapping and surface sampling will also be performed to define and prioritize drilling targets.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Additional drilling is planned in new exploration areas and to increase resource confidence levels.